SECONDARY MATH II
DOMAIN 6 G.GPE.1 CIRCLES
WS 6.4 EQUATION OF A CIRCLE

NAME_____
DATE_____
CLASS_____

Equations of Circles

Find the coordinates of the center and the measure of the radius for each circle whose equation is given.

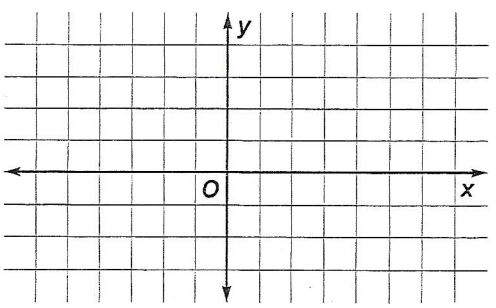
1. $(x - 3)^2 + (y + 1)^2 = 16$

2. $\left(x + \frac{5}{8}\right)^2 + (y + 2)^2 = \frac{25}{9}$

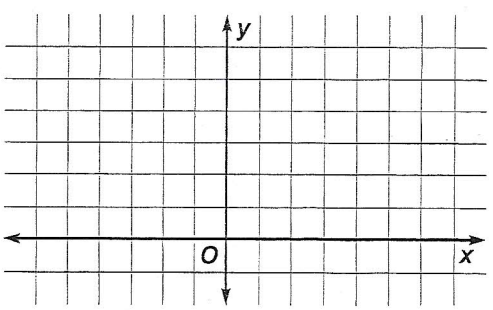
3. $(x - 3.2)^2 + (y - 0.75)^2 = 40$

Graph each equation on a coordinate grid.

4. $(x - 2)^2 + y^2 = 6.25$



5. $(x + 3)^2 + \left(y - \frac{3}{2}\right)^2 = 4$

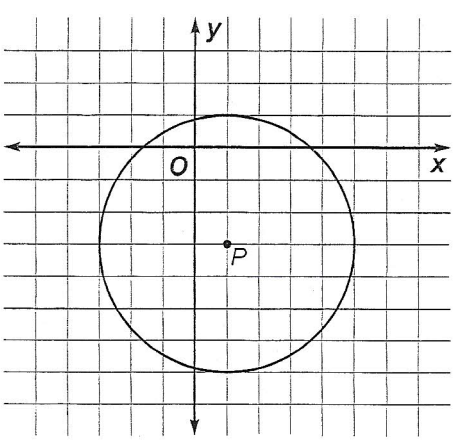


Write the equation of circle P based on the given information.

7. center: $P\left(0, \frac{1}{2}\right)$
radius: 8

8. center: $P(-5.3, 1)$
diameter: 9

9.



10. a diameter whose endpoints are at $(5, -7)$ and $(-2, 4)$